## **EUROPEAN PATENT OFFICE**

## Patent Abstracts of Japan

PUBLICATION NUMBER

2001051256

PUBLICATION DATE

23-02-01

**APPLICATION DATE** 

06-08-99

APPLICATION NUMBER

11223437

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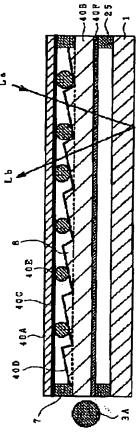
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TITLE

LIQUID CRYSTAL DISPLAY DEVICE



ABSTRACT: PROBLEM TO BE SOLVED: To suppress reflected light on the surface of an illuminator by providing an antireflection film on the surface opposed to a liquid crystal display panel of a lower substrate.

> SOLUTION: This antireflection film 40F is provided on a surface opposed to a liquid crystal display panel 1 of a transparent hard substrate 40B. Thereby, reflection of light generated between an air layer, between a front light and touch panel and the liquid crystal display panel 1 and the transparent hard substrate 40B is prevented. The material of the antireflection 40F preferably has a refractive index valve intermediate between refractive indices of the transparent hard substrate 40B and the air. As actual examples of the material of the antireflection film 40F, magnesium fluoride MgF2 having a refractive index of 1.38 (550 nm wavelength), cryolite Na3AlF6 and the like having a refractive index of 1.33 and the like are used. The antireflection film 40F has to be formed at a temperature at which acrylic resin will not deform. There are a deposition method, a low temperature sputtering method and an ion-plating method for forming the antireflection film and the ion-plating method which are avalilable with superior in cost performance.

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